RECEIVED
CENTRAL FAX CENTER
JUL 2 3 2006

Application No. 10/823,848
Amendment dated July 23, 2006
Reply to Office Action mailed on March 22, 2006

Amendments to the Claims:

Please amend claims 1-3 and 5.

Please add new claims 6 and 7.

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1 (currently amended). A method for tinting the surface of a solid substrate such as a plastic sheet, or a coating, or a film, with a nanometer-sized, or a multi-nanometer-sized polyphenol, ~~such as melanin~~, in which said solid substrate is:

a) chemically etched to cause multi-nanometer-sized pores within a ~~thin~~, several microns layer of the substrate but ~~sufficiently~~ small pore sizes to preclude visible light scatter;

b) functionalized so as to react and bond with the ~~said~~ polyphenol~~, or melanin~~.

2 (currently amended). A method for tinting the surface of a solid substrate, according to claim 1, in which the substrate is ~~CR39~~ diethyleneglycol bis-allycarbonate.

3.(currently amended). A method for tinting the surface of a solid substrate, according to claim 1, in which the substrate is a polymer hard coating.

4 (original). A method for tinting the surface of a solid substrate, according to claim 1, in which the etching agent is sodium hydroxide.

5 (currently amended). A method for tinting the surface of a solid substrate, according to claim 1, in which the etching agent is accompanied by a phase transfer catalyst~~, such as tetrabuytlammonium bromide~~ or by the addition of hexanediamine or by the addition of domiphen bromide.

6 (new). A method according to claim 1 wherein the polyphenol is melanin.

7 (new). A method according to claim 5 wherein the phase transfer catalyst is is tetrabutyl ammonium bromide.